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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/396,054 09/15/1999		YOSHIHITO ISHIBASHI	450100-02090	6914
20999	7590 06/02/2005		EXAMINER	
FROMMER LAWRENCE & HAUG 745 FIFTH AVENUE- 10TH FL.			ABEL JALIL, NEVEEN	
	NY 10151		ART UNIT	PAPER NUMBER
	•		2165	

DATE MAILED: 06/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/396,054	ISHIBASHI, YOSHIHITO				
Office Action Summary	Examiner	Art Unit				
	Neveen Abel-Jalil	2165				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>24 N</u>	ovember 2004.					
2a)⊠ This action is FINAL . 2b)□ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-41</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-41</u> is/are rejected.						
7)☐ Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
	oriority under 35 U.S.C. & 119(a)-(d) or (f)				
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
		SAM RIMELL PRIMARY EXAMINER				
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date	6) Other:	,, ,				
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office A	ction Summary P	art of Paper No./Mail Date 20050524				

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DETAILED ACTION

Remarks

The Amendment filed on 24-November-2004 has been received and entered. Claims 1 are pending

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-15, and 19-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saito (U.S. Patent No. 6,741,991 B2) in view of Morgan et al. (U.S. Patent No. 6,185,685 B1).

As to claim 1, <u>Saito</u> discloses a content management method for a data storage provided with a plurality of content storing means, comprising the steps of:

storing a content key encrypted with a first storage key in a first content storing means, and storing along with said content key encrypted with the first storage key a content encrypted with the content key (See Saito column 7, lines 8-15);

decrypting the encrypted content key with the first storage key (See <u>Saito</u> column 7, lines 16-44); and

encrypting the content key obtained by the above decryption with a newly generated second storage key (See Saito column 7, lines 16-44); and

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storing the content key encrypted with the second storage key along with the encrypted content in a second content storing means (See <u>Saito</u> column 7, lines 50-67).

Saito does not teach wherein the second storage key is generated at a different location than the first storage key.

Morgan et al. teaches wherein the second storage key is generated at a different location than the first storage key (See Morgan et al. column 3, lines 51-67, also see Morgan et al. abstract).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to have modified <u>Saito</u> to include wherein the second storage key is generated at a different location than the first storage key.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified <u>Saito</u> by the teaching of <u>Morgan et al.</u> to include wherein the second storage key is generated at a different location than the first storage key because it provides protection and security against unauthorized access (See <u>Morgan et al.</u> column 1, lines 36-55).

As to claim 2, <u>Saito</u> as modified discloses wherein the second storage key is generated based on a random number (See <u>Saito</u> column 6, lines 45-48).

As to claim 3, <u>Saito</u> as modified discloses wherein the content key obtained by the decryption is encrypted with identification information of the second content storing means and stored into the second content storing means (See <u>Saito</u> column 6, lines 49-67).

As to claim 4, <u>Saito</u> as modified discloses wherein the content key is encrypted, in the first content storing means, with the first storage key and identification information of the first content storing means, and the content key stored in the first content storing means is decrypted with the first storage key and identification information of the first content storing means (See Saito column 4, lines 30-67).

As to claim 5, <u>Saito</u> as modified discloses wherein the second storage key is generated by a decrypted key generating means provided in the data storage (See <u>Saito</u> column 8, lines 43-67).

As to claim 6, <u>Saito</u> as modified discloses wherein the second storage key is encrypted with a public key for a key management unit for management of the storage keys to generate a third storage key and the third storage key is stored into the second content storing means (See <u>Saito</u> column 10, lines 6-45, also see <u>Saito</u> column 16, lines 39-67).

As to claim 7, <u>Saito</u> as modified discloses wherein the data storage deletes the second storage key depending upon whether the third storage key has been stored in the second content storing means (See <u>Saito</u> column 9, lines 23-49).

As to claim 8, <u>Saito</u> as modified discloses wherein when decrypting the content key stored in the second content storing means, the data storage sends the third storage key to the key management unit; and the key management unit generates a second storage key based on the

third storage key while accounting the data service following a predetermined procedure (See Saito column 16, lines 31-67).

As to claim 9, <u>Saito</u> as modified discloses wherein the second storage key is generated by a storage key generating means provided in the key management unit which manages the storage keys; and the key management unit has stored therein the second storage key and the identification information of the second content storing means in which the content key encrypted with the above generated second storage key (See <u>Saito</u> column 11, lines 5-67).

As to claim 10, <u>Saito</u> as modified discloses wherein upon the generation of the second storage key, the key management unit accounts the data service following the predetermined procedure (See <u>Saito</u> column 19, lines 19-55, wherein "accounts" reads on "escrow").

As to claim 11, <u>Saito</u> as modified discloses wherein the key management encrypts the second storage key with the management key to generate a third storage key, and sends the third storage key to the data storage (See <u>Saito</u> column 19, lines 19-55); and

the data storage stores the received third storage key into the second content storing means (See Saito column 19, lines 19-55).

As to claim 12, <u>Saito</u> as modified discloses wherein the data storage deletes the second storage key depending upon whether the third storage key has been stored in the second content storing means (See <u>Saito</u> column 19, lines 45-47, wherein "deletes" reads on "abandoned").

As to claim 13, <u>Saito</u> as modified discloses wherein the key management unit has stored therein the identification information of the second content storing means in which the content key encrypted with the second storage key (See <u>Saito</u> column 32, lines 40-67, also see <u>Saito</u> column 33, lines 1-21);

the data storage sends, when decrypting the content key stored in the second content storing means, the identification information of the second content storing means to the key management unit (See Saito column 32, lines 40-67, also see <u>Saito</u> column 33, lines 1-21); and

the key management unit generates a second storage key based on the result of comparison between the identification information of the second content storing means, send from the data storage, and the identification information of the second content storing means, held in the key management unit itself, while accounting the data service following the predetermined procedure (See Saito column 32, lines 40-67, also see Saito column 33, lines 1-21).

As to claim 14, <u>Saito</u> as modified discloses wherein the second content storing means has stored therein the identification information of the data storage (See <u>Saito</u> column 6, lines 40-56).

As to claim 15, <u>Saito</u> discloses wherein the data storage starts decrypting the content key stored in the second content storing means depending upon the result of an inspection of the identification information of the data storage, stored in the second content storing means (See <u>Saito</u> column 10, lines 10-45).

As to claim 19, <u>Saito</u> as modified discloses wherein the content key stored in the first content storing means is stored along with the identification information of the first content storing means into the second content storing means (See <u>Saito</u> column 6, lines 30-67);

the identification information stored in the second content storing means is stored into the data storage when the content key stored in the second content storing means is decrypted (See Saito column 6, lines 30-67); and

the data storage makes, when a request is made to decrypt the content key in the first content storing means, an error process based on the result of comparison between the identification information of the first content storing means in consideration and the identification information of the second content storing means (See Saito column 7, lines 1-67).

As to claim 20, Saito discloses a content storage system, comprising:

a first content storing means having stored therein a content key encrypted with a first storage key and a content encrypted with the content key (See Saito column 12, lines 1-65, also see Saito column 11, lines 31-40);

means for decrypting key data (See Saito column 10, lines 57-67);

means for encrypting key data (See Saito column 5, lines 49-52);

means for generating a first storage key (See Saito column 6, lines 57-65, also see Saito column 7, lines 16-44);

means for generating a second storage key (See Saito column 7, lines 16-44);

a second content storing means for storing an encrypted content key obtained by encrypting, in the encrypting means, the content key obtained by decryption with the first storage key in the decrypting means, using the second storage key generated by the storage key generating means, and the encrypted content (See Saito column 12, lines 1-65); and means for storing the storage keys (See Saito column 12, lines 1-18).

Saito does not teach wherein the second storage key is generated at a different location than the first storage key.

Morgan et al. teaches wherein the second storage key is generated at a different location than the first storage key (See Morgan et al. column 3, lines 51-67, also see Morgan et al. abstract).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to have modified <u>Saito</u> to include wherein the second storage key is generated at a different location than the first storage key.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified <u>Saito</u> by the teaching of <u>Morgan et al.</u> to include wherein the second storage key is generated at a different location than the first storage key because it provides protection and security against unauthorized access (See <u>Morgan et al.</u> column 1, lines 36-55).

As to claim 21, <u>Saito</u> as modified discloses wherein the storage key storing means generates the second storage key by means of a random number generator (See <u>Saito</u> column 6, lines 44-48).

As to claim 22, <u>Saito</u> as modified discloses wherein a content key obtained by encrypting, in the encrypting means, the content key obtained by the decryption in the decrypting means, with the first storage key and identification information of the second content storing means, is stored in the second content storing means (See <u>Saito</u> column 6, lines 49-67, and see <u>Saito</u> column 7, lines 1-67).

As to claim 23, <u>Saito</u> as modified discloses wherein the content key is encrypted, in the first content storing means, with the first storage key and identification information of the first content storing means; and

the content key stored in the first content storing means is decrypted with the first storage key and identification information of the first content storing means (See <u>Saito</u> column 6, lines 49-67, and see <u>Saito</u> column 7, lines 1-67).

As to claim 24, <u>Saito</u> as modified discloses wherein the first content storing means, decrypting means, encrypting means, second content storing means, storage key storing means and storage key generating means form together a data storage (See <u>Saito</u> column 30, lines 16-48); and

further comprising a key management unit which manages the storage keys of the data storage (See Saito column 10, lines 6-56).

As to claim 25, <u>Saito</u> as modified discloses wherein the data storage is a data receiver which receives a content encrypted and sent from a data transmitter (See <u>Saito</u> column 5, lines 13-40).

As to claim 26, <u>Saito</u> as modified discloses comprising means for storing the public key of the key management unit; and wherein the second content storing means has stored therein the second storage key along with a third storage key obtained by encrypting the second storage key with the public key (See <u>Saito</u> column 22, lines 52-67, also see <u>Saito</u> column 23, lines 1-5).

As to claim 27, <u>Saito</u> as modified discloses wherein the data storage deletes the second storage key depending upon whether the third storage key is stored in the second content storing means (See <u>Saito</u> column 19, lines 45-47, wherein "deletes" reads on "abandoned").

As to claim 28, <u>Saito</u> as modified discloses wherein when decrypting the content key stored in the second content storing means, the data storage sends the third storage key to the key management unit (See <u>Saito</u> column 19, lines 33-47); and

the key management unit sends a second storage key generated based on the third storage key to the data transmitter while accounting the data service following a predetermined procedure (See Saito column 21, lines 6-28).

As to claim 29, <u>Saito</u> as modified discloses wherein the second content storing means has stored therein the identification information of the data storage (See <u>Saito</u> column 6, lines 32-67, and see <u>Saito</u> column 10, lines 10-31).

As to claim 30, <u>Saito</u> as modified discloses wherein the data storage starts decrypting the content key stored in the second content storing means depending on the result of inspection of the identification information of the data storage, stored in the second content storing means (See <u>Saito</u> column 22, lines 5-51).

As to claim 31, <u>Saito</u> as modified discloses wherein the first content storing means, decrypting means, encrypting means, second content storing means and storage key storing means form together a data storage (See <u>Saito</u> column 22, lines 20-50); and

comprising the storage key generating means and further a key management unit which manages the storage keys of the data storage (See Saito column 22, lines 5-20).

As to claim 32, <u>Saito</u> as modified discloses wherein the data storage is a data receiver which receives a content encrypted and sent from a data transmitter (See <u>Saito</u> column 5, lines 13-40).

As to claim 33, <u>Saito</u> as modified discloses wherein the key management unit comprises an identification information storing means in which the storage key generated by the key

management unit and the identification information of the content storing means in which the content key encrypted with the generated storage key (See <u>Saito</u> column 24, lines 43-55).

As to claim 34, <u>Saito</u> as modified discloses wherein the key management unit accounts the data service following the predetermined procedure depending upon the generation of the storage key (See <u>Saito</u> column 4, lines 16-34).

As to claim 35, <u>Saito</u> as modified discloses wherein the key management unit comprises means for storing storage keys;

the key management unit generates a third storage key by decrypting the second storage key with the storage key and sends it to the data storage (See Saito column 22, lines 52-67); and the data storage stores the third storage key into the second content storing means (See Saito column 23, lines 1-5).

As to claim 36, <u>Saito</u> as modified discloses wherein the data storage deletes the second storage key depending upon whether the third storage key is stored into the second content storing means (See <u>Saito</u> column 7, lines 10-41).

As to claim 37, <u>Saito</u> as modified discloses wherein the key management unit comprises means for storing the second storage key and the identification information of the second content storing means in which the content key encrypted with the second storage key is stored (See <u>Saito</u> column 6, lines 39-67);

the key management unit accounts, when the data storage decrypts the content key, the data service following the predetermined procedure based on the result of comparison (See Saito abstract) between the identification information of the second content storing means, sent from the data storage, and the identification information stored in the identification information storing means (See Saito column 7, lines 37-67).

As to claim 38, <u>Saito</u> discloses wherein the second content storing means has stored therein the identification information of the data storage (See column 7, lines 37-65).

As to claim 39, <u>Saito</u> discloses wherein the data storage starts decrypting the content key stored in the second content storing means (See column 6, lines 45-65).

As to claim 40, <u>Saito</u> as modified discloses wherein the content key obtained by decryption from the second content storing means has added thereto information that the content key is a one obtained by restoration, as requirement information (See <u>Saito</u> column 13, lines 26-40).

4. Claims 16-18, and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saito (U.S. Patent No. 6,741,991 B2) in view of Morgan et al. (U.S. Patent No. 6,185,685 B1) as applied to claims 1-15, and 19-40 above, and further in view of Takashima et al. (U.S. Patent No. 5,701,343).

As to claim 16, <u>Saito</u> as modified still does not teach wherein the decrypted content key supplied from the second content storing means has added thereto information that the content key is a one obtained by restoration.

<u>Takashima et al.</u> teaches wherein the decrypted content key supplied from the second content storing means has added thereto information that the content key is a one obtained by restoration (See <u>Takashima et al.</u> column 8, lines 13-65).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to have further modified <u>Saito</u> as modified to include wherein the decrypted content key supplied from the second content storing means has added thereto information that the content key is a one obtained by restoration.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have further modified <u>Saito</u> as modified by the teaching of <u>Takashima et al.</u> to include wherein the decrypted content key supplied from the second content storing means has added thereto information that the content key is a one obtained by restoration because it provides security and consistency.

As to claim 17, <u>Saito</u> as modified discloses wherein when moving the content key having added thereto the information that the content key is a restored one, the data storage makes an error process based on the result of comparison between the content key and a content key stored in a destination to which the content key is to be moved (See <u>Takashima et al.</u> column 15, lines 42-67).

As to claim 18, <u>Saito</u> as modified still does not teach wherein the content key has added thereto frequency information which limits the number of times the content key can be used.

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<u>Takashima et al.</u> teaches wherein the content key has added thereto frequency information which limits the number of times the content key can be used (See <u>Takashima et al.</u> column 8, lines 13-65).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to have further modified <u>Saito</u> as modified to include wherein the content key has added thereto frequency information which limits the number of times the content key can be used.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have further modified <u>Saito</u> as modified by the teaching of <u>Takashima et al.</u> to include wherein the content key has added thereto frequency information which limits the number of times the content key can be used because it provides security and consistency.

As to claim 41, <u>Saito</u> as modified still does not teach wherein the content key has added thereto frequency information which limits the number of times the content key can be used.

<u>Takashima et al.</u> teaches wherein the content key has added thereto frequency information which limits the number of times the content key can be used (See <u>Takashima et al.</u> column 8, lines 13-65).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to have further modified <u>Saito</u> as modified to include wherein the

content key has added thereto frequency information which limits the number of times the content key can be used.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have further modified <u>Saito</u> as modified by the teaching of <u>Takashima et al.</u> to include wherein the content key has added thereto frequency information which limits the number of times the content key can be used because it provides security and consistency.

Response to Arguments

5. Applicant's arguments with respect to claims 1-41 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Neveen Abel-Jalil whose telephone number is 571-272-4074.

The examiner can normally be reached on 8:30AM-5:30PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Dov Popovici can be reached on 571-272-4038. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Neveen Abel-Jalil

May 25, 2005

SAM RIMELL PRIMARY EXAMINER